



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION



PAUL R. LEPAGE
GOVERNOR

PATRICIA W. AHO
COMMISSIONER

**Hyponex Corporation
Penobscot County
Medway, Maine
A-682-71-G-M (SM)**

**Departmental
Findings of Fact and Order
Air Emission License
Amendment #2**

FINDINGS OF FACT

After review of the air emission license amendment application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 Maine Revised Statutes Annotated (M.R.S.A.) §344 and §590, the Maine Department of Environmental Protection (the Department) finds the following facts:

I. REGISTRATION

A. Introduction

Hyponex Corporation (Hyponex) was issued Air Emission License A-682-71-E-N on June 19, 2012, permitting the operation of emission sources associated with their Medway, Maine bark processing and bagging facility. The license was subsequently amended on March 20, 2014 (A-682-71-F-A).

Hyponex has requested a minor revision to their license in order to correct the incorrectly identified installation and requirement of CO and O₂ continuous emissions monitoring systems (CEMS) on the generator unit Diesel #1.

The equipment addressed in this minor revision is located at 264 Nicatou Industrial Lane, Medway, Maine.

B. Emission Equipment

The following equipment is addressed in this air emission license minor revision:

Equipment	Maximum Rated Input (MMBtu/hr)	Maximum Rated Output	Firing Rate (gal/hr)	Fuel Type	Date of...		Stack #
					Manuf.	Install.	
Diesel #1	5.2	532 kW (800 HP)	37.9	Distillate Fuel (0.0015% sulfur)	1996	1996	1

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17 STATE HOUSE STATION
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1235 CENTRAL DRIVE, SKYWAY PARK
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C. Application Classification

This license change will not increase emissions of any pollutant; therefore, this amendment is determined to be a minor revision and has been processed as such.

II. MINOR REVISION DESCRIPTION

A. Introduction

Hyponex operates Diesel #1, a Caterpillar 800 HP (532 kW) non-emergency, non-black start compression ignition (CI) stationary reciprocating internal combustion engine (RICE) that was manufactured and installed in 1996. The engine has a maximum input capacity of 5.2 MMBtu/hour and a maximum firing rate of 37.9 gallons/hour, and fires distillate fuel with a maximum sulfur content of 0.0015% by weight (15 ppm).

Diesel #1 is subject to applicable requirements of 40 CFR Part 63, Subpart ZZZZ, *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*, per 40 CFR §63.6603. In accordance with these applicable requirements, Hyponex equipped Diesel #1 with an oxidation catalyst for CO emissions control and a continuous monitoring system (CMS) which monitors and records pressure drop across the catalyst and exhaust temperature, satisfying the monitoring requirements of Subpart ZZZZ for this unit.

As defined in Subpart ZZZZ, Diesel #1 is an existing, non-emergency, non-black start CI stationary RICE rated at > 500 HP. Subpart ZZZZ requires the demonstration of compliance with the applicable CO emissions standard **either** through the use of a CO CEMS **or** through emissions testing every 8,760 hours of operation or every three years, whichever comes first. [40 CFR Part 63, Subpart ZZZZ, Table 3, #4]

Air Emission License Amendment A-682-71-F-A (March 20, 2014) incorrectly states that Hyponex elected to install a CO CEMS on this unit. The facility has not installed a CO CEMS, but instead intends to conduct periodic emissions testing at the frequency specified in Subpart ZZZZ. This license minor revision corrects the conditions of the above referenced license amendment to accurately state the method by which Hyponex will demonstrate compliance with the applicable CO emissions standard.

B. Annual Emissions

Total licensed annual emissions for the facility will not change as a result of this license minor revision.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards, and
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License Amendment A-682-71-G-M subject to the conditions found in Air Emission License A-682-71-E-N, in amendment A-682-71-F-A, and the following conditions.

Severability. The invalidity or unenforceability of any provision of this License Minor Revision or part thereof shall not affect the remainder of the provision or any other provisions. This License Minor Revision shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

SPECIFIC CONDITIONS

The following shall replace Parts G, H, I, and J of Specific Condition (16) found in Air Emission License Amendment A-682-71-F-A (March 20, 2014).

All other parts of Specific Condition (16) shall remain in effect as found in Air Emission License A-682-71-E-N (June 19, 2012) and License Amendment A-682-71-F-A (March 20, 2014) unless amended in a subsequent licensing action.

(16) Diesels #1 and #2

G. Hyponex shall operate and maintain the oxidation catalyst on Diesel #1. Hyponex shall also operate and maintain a continuous monitoring system (CMS) which monitors and records pressure drop across the catalyst and exhaust temperature. [40 CFR Part 63, Subpart ZZZZ]

Hyponex shall conduct emissions testing on Diesel #1 every 8,760 hours of operation or every three years, whichever comes first, in accordance with the applicable specifications identified in Table 4 to Subpart ZZZZ of Part 63. [40 CFR Part 63, Subpart ZZZZ]

H. CMS Monitoring, Data Collection, Operation, and Maintenance

Hyponex shall install, operate, and maintain each CMS according to the following requirements:

1. Prepare and maintain a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (1) through (5) below and in 40 CFR §63.8(d).
 - a. The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;
 - b. Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;
 - c. Equipment performance evaluations, system accuracy audits, or other audit procedures;
 - d. Ongoing operation and maintenance procedures in accordance with provisions in 40 CFR §63.8(c)(1)(ii) and (c)(3); and
 - e. Ongoing reporting and recordkeeping procedures in accordance with provisions in 40 CFR §63.10(c), (e)(1), and (e)(2)(i).
2. Each CMS shall be installed, operated, and maintained according to the procedures in the site-specific monitoring plan.
3. The CMS must collect data at least once every 15 minutes.
4. For a CMS measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8° Celsius (5° Fahrenheit) or 1% of the measurement range, whichever is larger.
5. At least annually, Hyponex shall conduct CMS equipment performance evaluation, system accuracy audits, or other audit procedures in accordance with the site-specific monitoring plan.

J. Recordkeeping

The following records shall be maintained and readily accessible:

1. Records of the hours of operation of Diesel #1 since the most recently conducted emissions testing, based on readings from the non-resettable hour meter on the unit. [40 CFR Part 63, Subpart ZZZZ and 06-096 CMR 115, BPT]
2. A copy of each notification and report that was submitted in compliance with Subpart ZZZZ, including all documentation supporting Initial Notification or Notification of Compliance Status submitted in accordance with 40 CFR §63.10(b)(2)(xiv).
3. Records of the occurrence and duration of each malfunction of operation (process equipment) or the air pollution control and monitoring equipment.

4. Records of performance tests and performance evaluations as required in 40 CFR §63.10(b)(2)(vii).
5. Records of all required maintenance performed on the air pollution control and monitoring equipment.
6. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions taken to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
7. For Diesel #2: Records as required by Table 6, Section 9 of 40 CFR Part 63, Subpart ZZZZ supporting a maintenance plan showing compliance with manufacturer's recommendations and best management practices.

K. Reporting

Hyponex shall comply with applicable Subpart ZZZZ reporting requirements, including the semiannual reporting requirements for Diesel #1 identified below. [40 CFR Part 63, Subpart ZZZZ, Table 7 and §63.6650(b)(1)-(5)] The semiannual report shall be submitted to the US EPA and a copy provided to the Department.

1. Company name and address.
2. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
3. Date of the report and the beginning and ending dates of the reporting period.
4. A summary of any/all malfunctions including the number, duration, and brief description for each malfunction which caused or may have caused any applicable emission limitation to be exceeded. The report must also contain a description of actions taken to minimize emissions in accordance with 40 CFR §63.6605(b), including actions taken to correct a malfunction.
5. Discussion regarding deviations from the emission limitations or operating limitations listed in Table 1. This discussion will contain either of the following:
 - a. If there were no deviations: Statement that there were no deviations.
 - b. If there were deviations:
 - (i) The total operating time of the unit that occurred during the reporting period; and
 - (ii) The number, duration, and causes of deviations (including unknown cause, if applicable), and the corrective action taken.

[40 CFR §63.6650(d)]

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6. If there were no periods during which the CMS was out-of-control, as specified in 40 CFR §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.
7. Failure to meet each emission or operating limitation must be reported in accordance with section 40 CFR §63.6650.

DONE AND DATED IN AUGUSTA, MAINE THIS 14 DAY OF October, 2014.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Marc Allen Robert Cone for
PATRICIA W. AHO, COMMISSIONER

The term of this amendment shall be concurrent with the term of Air Emission License A-682-71-E-N.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: September 16, 2014

Date of application acceptance: September 16, 2014

Date filed with the Board of Environmental Protection:

This Order prepared by Jane E. Gilbert, Bureau of Air Quality.

